SCA100/125K-T-EU

Three-Phase String Inverter
100/125kW • 12 MPPTs • 1100Vdc System

Efficient

Appealing yield

- 12 MPPTs with Max. Efficiency 98.5%
- Easily compatible with various PV modules based on max. input current 30A per MPPT
- Superb temperature performance, full power at 50°C(SCA100K-T-EU)
- 150% DC/AC ratio

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter+CT

Safe

Solid quality

- Durable and robust component
- IP66&C5 protection
- Type II SPD for both DC and AC

Model Name	SCA100K-T-EU	SCA125K-T-EU
DC Input		
Max. DC Voltage	1100Vdc	
MPPT Operating Voltage Range	200 - 950Vdc	
Start Voltage	300Vdc	
Rated DC Voltage	615Vdc	
Number of MPPT	12	
Number of DC Connection Sets per MPPT	2	
Max. input current per MPPT	30A	
Max. DC short-circuit current per MPPT	45A	
String Fuse	/	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	100kW	125kW
Max. AC Power	110kVA	125kVA
Rated AC Voltage	380 / 400V	
AC Voltage Range[1]	322 - 528V	
Grid Connection Type	3Φ / N / PE	
Max. AC Current	167.2	190A
Grid Frequency	50 / 60Hz	
Grid Frequency Range[1]	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
AC Disconnection Type	/	
System Data		
Topology	Transformerless	
Max. Efficiency	98.11%	98.50%
Euro Efficiency	98.00%	98.10%
Consumption at Night	<6W	
Protection		
Anti-islanding Protection	Yes	
DC reverse polarity protection	Yes	
DC overvoltage protection	Yes	
Insulation resistance detection	Yes	
Residual Current Monitoring Unit	Yes	
Ground fault monitoring	Yes	
AC short circuit protection	Yes	
AC overvoltage protection	Yes	
PV string monitoring	Yes	
Dry contact remote control	Yes	
I-V curve scan	Yes	
AFCI	Yes	
Surge Protection	DC Type II / AC Type II	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)	
Mechanical Data		
Dimensions (W*H*D)	1050 * 660 * 340mm	
Weight	90kg	
DC Connection Type	MC4 (Max. 6mm²)	
AC Connection Type	OT/DT Terminal(Max. 240mm²)	
Safety		
Certifications[2]	IEC61000, IEC/EN 62109, IEC61727/62116, EN50549, NC RFG, CEI 0-16, CEI 0-21, UNE217001, UNE 217002, NTS_V2.1, VDE-AR-N 4110, VDE-AR-N 4105, UTE-C15	

*1 AC Power is different under different rated AC voltage.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.